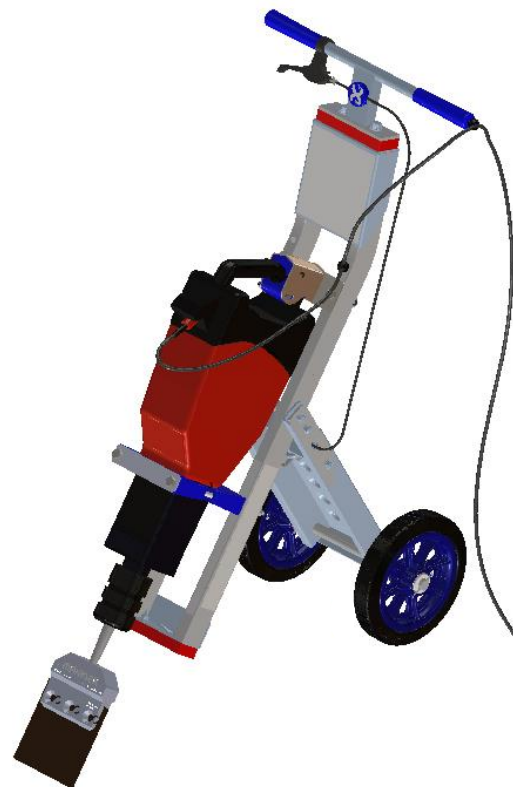


Makinex Jackhammer Trolley with Hilti Breaker TE1000-AVR & TE1500-AVR



OPERATOR'S MANUAL

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ABOUT THIS MANUAL

This manual is designed to provide the user with the information required to operate and maintain the Jack Hammer Trolley correctly and safely.

Key Terms



READ CAREFULLY – refers to **important information** that should be paid careful attention.



CAUTION - indicates a situation that **may** cause injury or damage to the machine if the user does not follow the instructions.



WARNING – indicates a situation that **may** cause injury or death if the user does not follow the instructions correctly.



DANGER – indicates a situation that **will** cause injury or death if the user does not follow the instructions as written.



PROHIBITED – identifies actions that **should never** be carried out by any one interacting with the machine.

Disclaimer

MAKINEX, and its affiliates, takes no responsibility for any damage, injury or death resulting from the incorrect or unsafe use of this machine. Use of this machine should be undertaken by competent persons only. It is the operators' responsibility to ensure that the following safety procedures are followed.

PRODUCT INFORMATION

Safety Information

General Safety Instructions

Throughout this document there are several safety warnings. The user should read through this complete document before using the Jack Hammer Trolley.



Ensure you read all information contained in this manual before using the Jack Hammer Trolley



Ensure you read the manual and safety instructions for the Jack Hammer and other components that are part of this unit. See Appendix for more information



Always wear the recommended personal protective equipment



Never expose the machine to moisture or rain

- 1) Use personal protective equipment. Always wear eye protection. Protective equipment such as dusk mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

- 2) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired and under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- 3) Hold the device by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.
- 4) Before beginning work, check the working area (e.g. using a metal detector) to ensure that no concealed electric cables or gas and water pipes are present. External metal parts of the power tool may become live, for example, when an electric cable is damaged accidentally. This presents a serious risk of electric shock.
- 5) Check the power tool’s supply cord at regular intervals and have it replaced by a qualified specialist if found to be damaged. Check extension cords at regular intervals and replace them if found to be damaged. Do not touch the supply cord, the extension cord or the trolley if the cord is damaged while working. Disconnect the mains plug from the power outlet. Damaged supply cords or extension cords present a risk of electric shock.
- 6) Check before start-up that all screws are tight. Replace defective screws always.
- 7) Check the spring regularly on their condition. Replace defective or worn springs always.
- 8) Store idle devices out of the reach of children and do not allow persons unfamiliar with power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

SAFETY STICKERS

There is a safety and information panel provided on the front of the Jack Hammer Trolley to alert the user of potential safety risks/hazards. Please read and adhere to all instructions on the Unit.



PROHIBITED

It is forbidden to remove any safety or instructional stickers or panels from the Jack Hammer Trolley



**READ
CAREFULLY**

Read all safety and instructional stickers displayed on each component of the Jack Hammer Trolley

MAKINEX

CONSTRUCTION PRODUCTS

Jackhammer Trolley - JHT

SAFETY OPERATING INSTRUCTIONS

- Ensure jackhammer is switched off before plugging in or disconnecting from mains power
- Use a dedicated mains power supply with extension lead not exceeding 10 metres
- Use caution when changing attachments
- Take regular breaks to avoid personal injury, stress, strain and fatigue

makinex.com

Designed in Australia | Made in China
US Patent No.s D668420 & 8240682



WARRANTY

In order to take advantage of the MAKINEX limited warranty, you must have maintenance performed according to the schedule (contained in relevant owner's manual supplied with this product), by an authorised MAKINEX dealer or MAKINEX service technician. You are free to have your MAKINEX product serviced by any suitably qualified mechanic or electrician (depending on the mechanical or electrical requirement) and this will not affect your statutory warranties, however, failure by the owner to have the recommended servicing carried out by an authorised MAKINEX dealer/service technician means that you cannot take advantage of the MAKINEX limited warranty.

In order to ensure your safety, we strongly recommend that you only use an authorised MAKINEX dealer for servicing. Only authorised MAKINEX dealers have access to all the special tools, technical information, parts and training required to maintain your MAKINEX product in peak operating condition.

MAKINEX warrants each new Jack hammer Trolley to be free from defects in material and workmanship under normal domestic and industrial use and service for the period specified below, conditional to the limitations and exclusions printed on this page. This warranty applies only to new MAKINEX Jack hammer Trolleys distributed by us and by our authorised MAKINEX dealers.

You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

WARRANTY: (Ex-factory/ Reseller premise)

MAKINEX warrants to the original purchaser:

- MAKINEX provides a Limited One Year Warranty that applies to Jack Hammer Trolley only (this excludes the Jack Hammer and any other attachments and consumables).
- Any unauthorized repair or part replacement will void warranty. Refer to manufacturer for all repairs.
- Regular service must be carried out by competent persons only; failure to comply will void warranty.
- Jack Hammer (where purchased) is to be covered by original manufacturer. Please refer to their manual for more information.

Transportation charges on product submitted for repair or replacement under this warranty are the sole responsibility of the purchaser. This warranty only applies to the original purchaser and is not transferable.

Warranty Exclusions:

- Warranty does not cover wear and tear, breakage, misuse or theft.
- Warranty does not cover consumables (e.g. blades).
Warranty does not cover attachments (e.g. Shanks and Tile Smasher heads).
- Warranty will not apply to parts and/or labour if this Jack hammer Trolley is deemed to be misused, neglected, installed improperly or set up incorrectly.

Warranty Exclusions

- Cosmetic defects such as decals and coating.
- Failures due to acts of God and other force majeure events beyond the manufacturer's control.

- Problems caused by parts that are not original MAKINEX parts.

Responsibility of the consumer under this Limited Warranty:

- Strict adherence to the maintenance checks and schedule with proof of scheduled maintenance service required by an authorised agent or qualified mechanic.
- Maintenance services are not covered under warranty.
- It is the consumer's responsibility to deliver the machine in question to our service premises or to the premises of our appointed agent at the consumer's expense for replacement or repair as applicable.

Claim Procedure:

- Contact MAKINEX by phone or email informing us of your machines problem or defect.
- Once the extent of the claim has been assessed, we retain the right to compensate the consumer for such defect, or repair (parts & labour), or replace the machine under warranty.
- All warranties will be carried out by MAKINEX authorised staff or appointed agents at a premises to be determined by the Manufacturer.
- It is the responsibility (and cost) of MAKINEX or our appointed agent to return the machine to be repaired or replaced under warranty to the consumer- this is valid for domestic territories

only (e.g. machine purchased in USA will repaired/replaced under warranty and returned to the USA consumer. Machine purchased in Australia will be repaired/ or replaced under warranty and returned to the Australian consumer etc.)

- Where the specific warranty component (e.g. Jack hammer) is under a Manufacturer's warranty other than MAKINEX (e.g.Hilti), the consumer can either contact MAKINEX or the applicable Manufacturer for repairs where such warranty was registered with that manufacturer at purchase.
- Warranty calls will only be carried out by our representatives and not via client's choice of repairer. We will not accept back charges for any work not carried out by our representatives, or accept any charges due to equipment being un-operational for any reason even during its warranty period.

Warranty contact information:

AUSTRALIA

Tel + 61 2 9460 8071
Fax +61 2 9439 9815
d.lobban@makinex.com.au
15 Waltham St, Artarmon, NSW
2064 AUSTRALIA

USA

Tel 855-625-4639
sales@makinex.com
p.maginnis@makinex.com

EUROPE

Tel +31 (0)6 24881203
+31 (0)6 50841849

Service and Spares ordering

For service and ordering parts, please call

AUS: 1300 795 953 or +61 2 9460 8071

USA: 855-625-4639

EUROPE: +31 (0)6 24881203 or +31 (0)6 50841849

Or your nearest MAKINEX distributor

We have very knowledgeable, experienced staff to assist you with help and advice.

PRODUCT DESCRIPTION AND SPECIFICATIONS

The versatile Jackhammer Trolley packs a punch, saving you a lot of hard work and effort. Let the Jackhammer Trolley take the workload of your back!

No more struggling or bending trying to handle heavy hammers, the trolley takes the pain out of demolition and renovation.

The Jackhammer Trolley enables your demolition hammer to lift most types of linoleum and tile, break rocks and blocks, crack concrete and sandstone all with a minimum of effort.

With a wide range of angle the Jack Hammer Trolley adapts to any situation with a maximum leverage.

Features

- Durable zinc coated frame
- Angle adjustment – with huge angle range
- Choice of popular brand hammers, will suit most hammers
- Anti-vibration ergonomic design
- Large wheels

Product Specifications

HEIGHT WHEN RAISED	1100mm/43.3''
HEIGHT WHEN LOWERED	600mm/23.6''
OVERALL WIDTH	510mm/20''
OVERALL LENGTH	1100mm/43.3''
ANGLE OF ADJUSTMENT	73° (93° closed, 20° open)
WEIGHT (WITHOUT JACKHAMMER)	28kg/62lb

INSTRUCTIONS FOR USE



Do not operate the Jack Hammer without wearing the appropriate personal protective equipment and assessing the surrounding area for hazards.

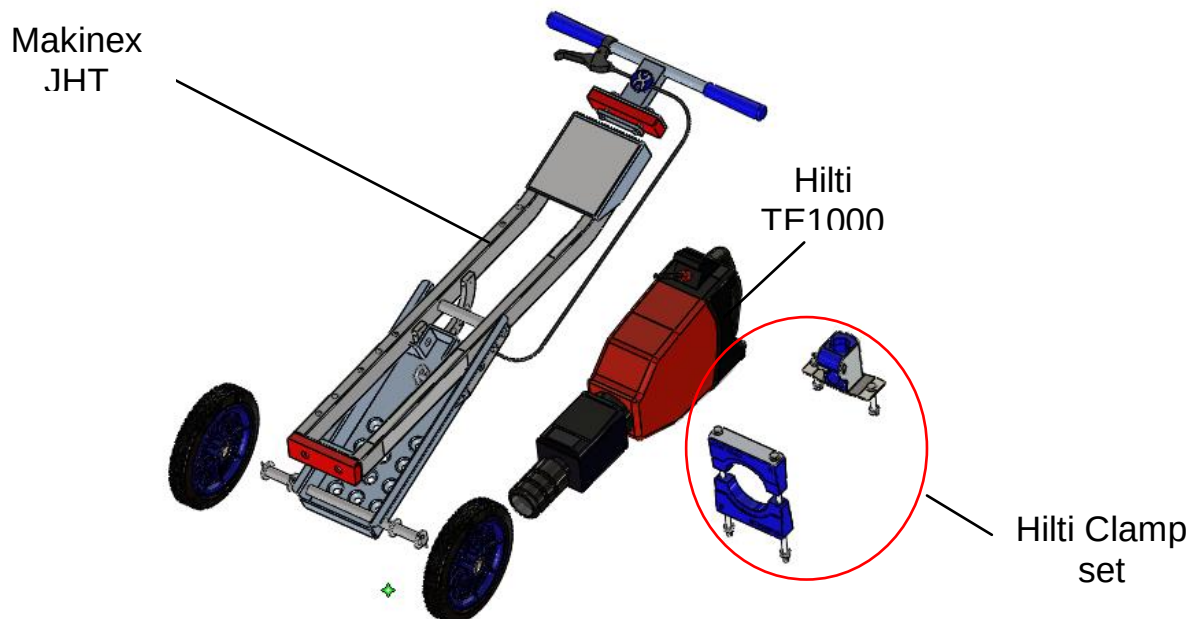
STEP 1 – Assembling the trolley

Tools Required

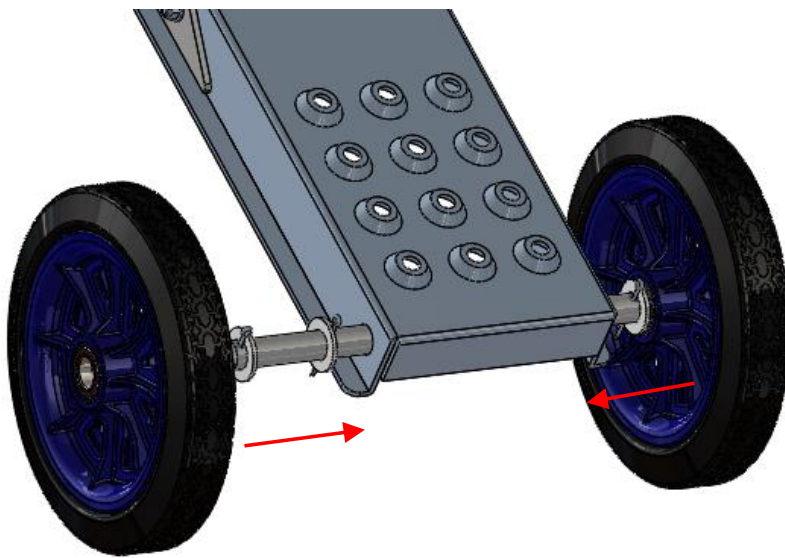
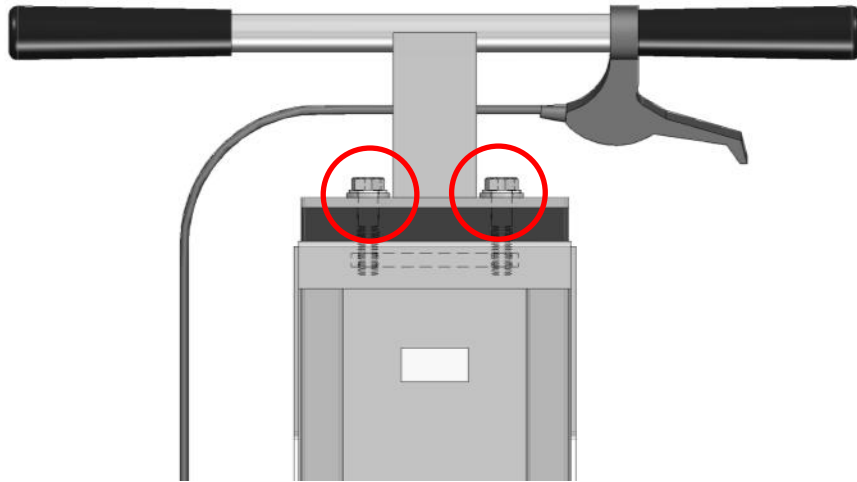
- 17mm socket
- 19mm socket
- Shifter
- Phillips head screwdriver
- Pliers

Instructions

1. You should have the parts pictured below:

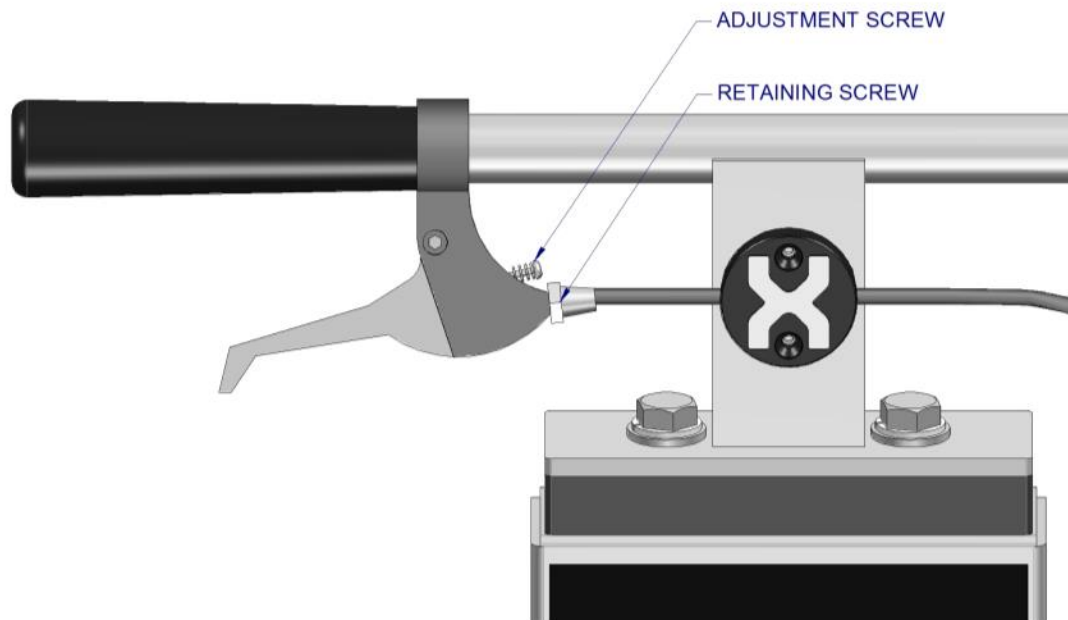


2. Attach the handle to the frame with the two mounting bolts provided.



3. Next, attach both wheels on the axle with the parts provided

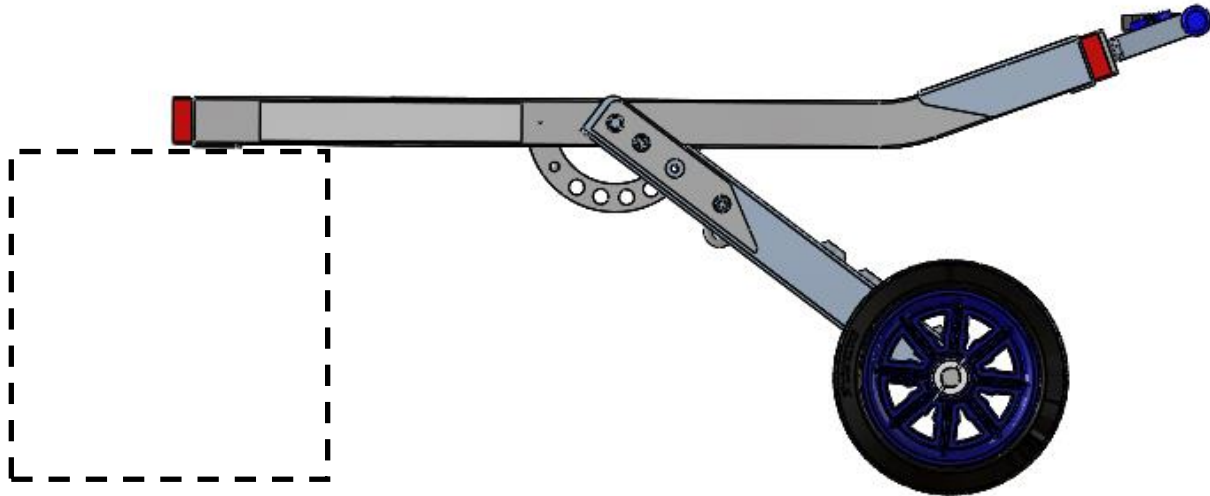
Brake Lever Adjustment



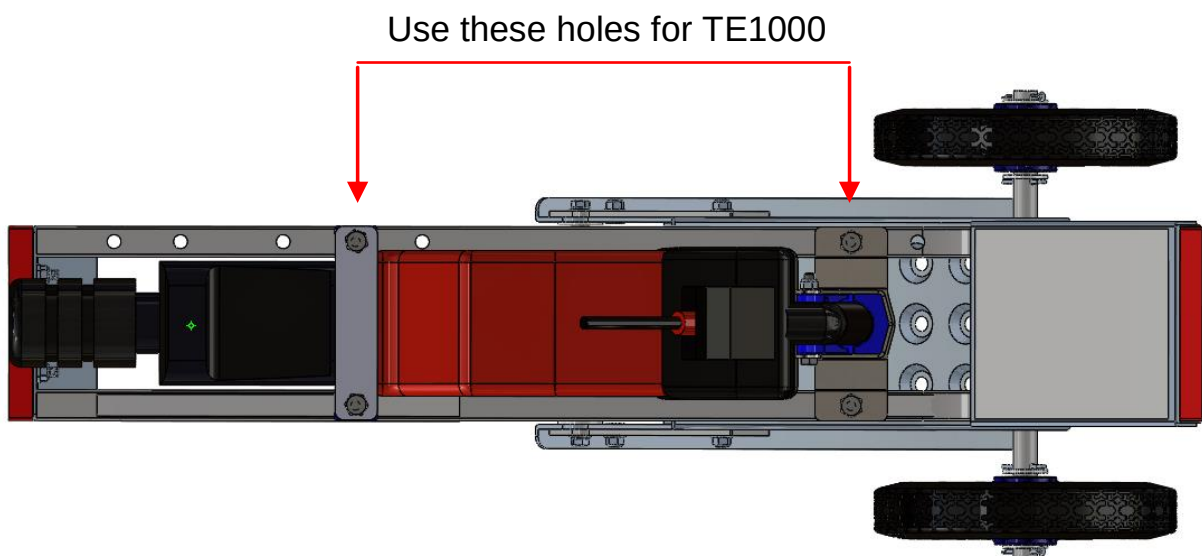
Instructions

1. Ensure cable is not kinked anywhere along its length
2. Tighten retaining screw with pliers
3. Tighten adjustment screw to remove slack from the cable. Note that some slack in the mechanism is normal.

Fitting a HILTI TE1000 Jack Hammer

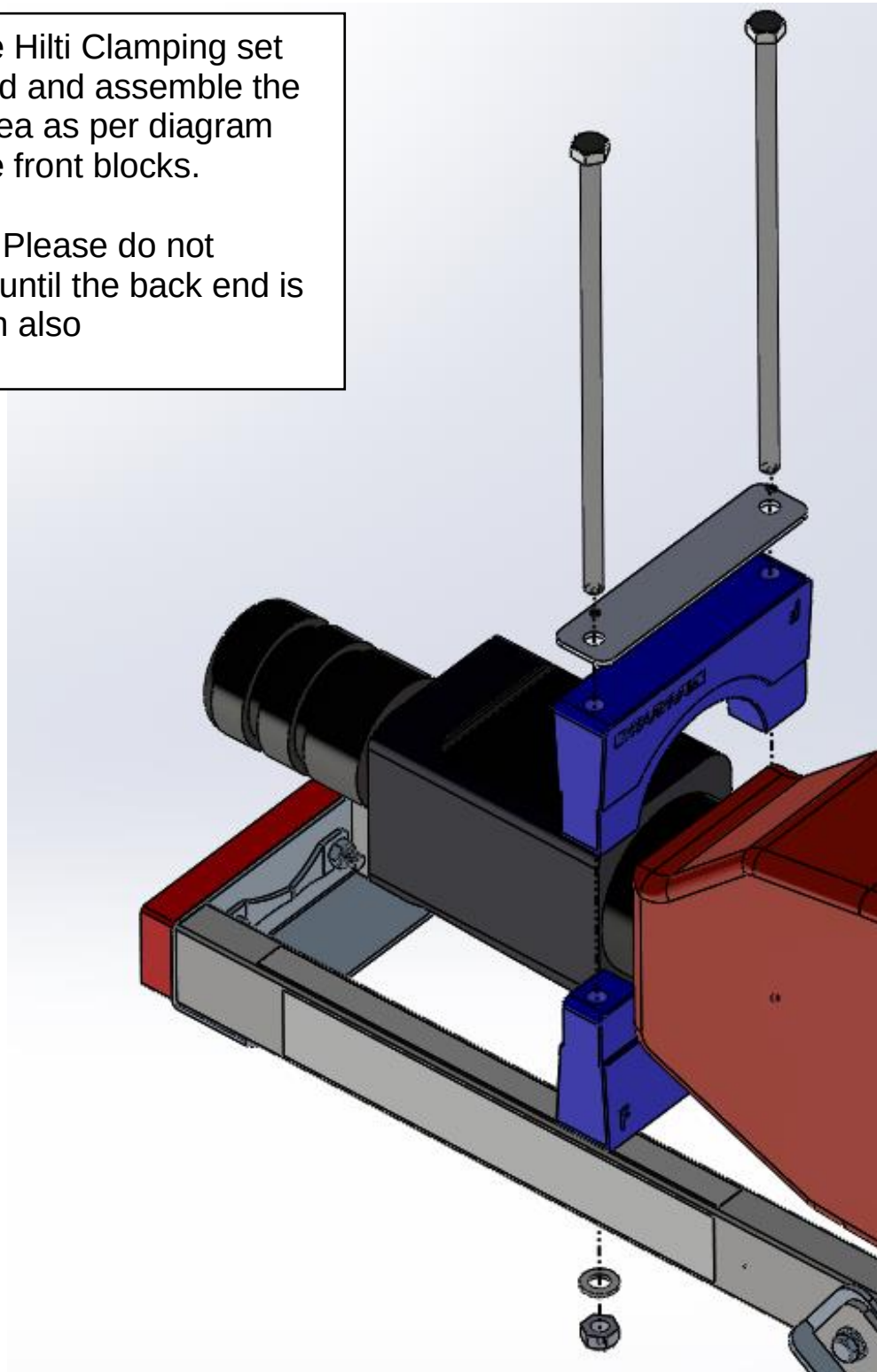


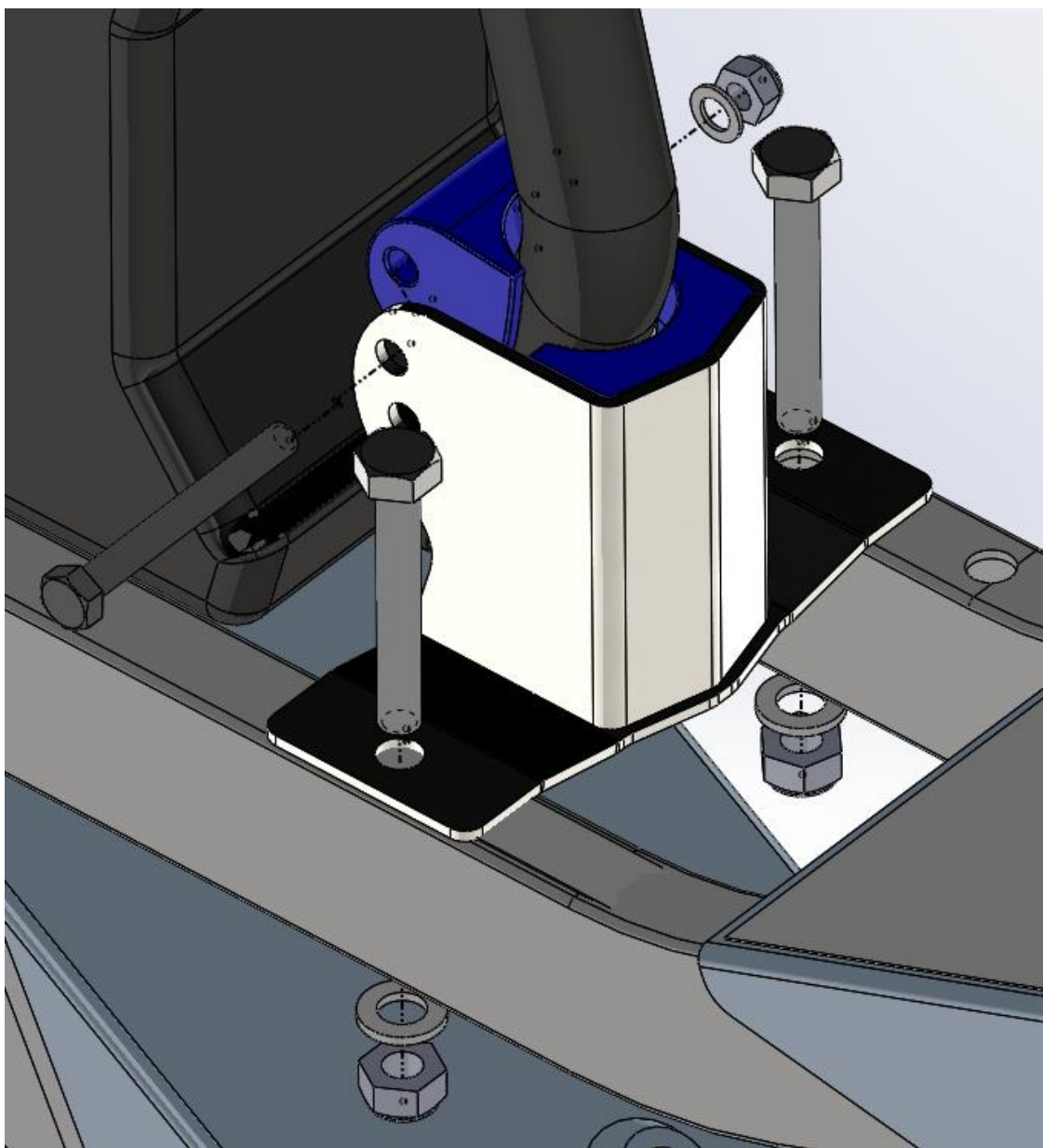
1. Adjust the trolley to its lowest position as shown and place the bottom end onto a platform that allows the trolley to be horizontal to the ground.
2. Distinguish the correct mounting holes that are needed to mount the Hilti TE1000 Jack hammer.



Use the Hilti Clamping set provided and assemble the front area as per diagram with the front blocks.

NOTE: Please do not tighten until the back end is fitted on also





Set up the back of the jack hammer with the back mounting blocks provided. Please refer to the above diagram.

NOTE: Please take care during assembly and DO NOT over tighten block sets!

Position the electrical cord from the Jack hammer to the indicated positions to guide it away from any possible crush points



Location 1



Location 2

STEP 2 – Using the Hammer Trolley



Ensure the machine is switched OFF before plugging in



Ensure Moil is correctly inserted and locked in position before use

1. Ensure Hammer is secure in clamping mechanism and cannot rotate.
2. Position and angle before commencing work.

To change angle - lift handles to take weight off lock mechanism then pull the brake lever to disengage the lock mechanism. Lift or lower the height of the handles to achieve the desired angle of jackhammer then release brake lever to reengage the lock mechanism.

3. Never allow Hammer or moil to overheat.
4. Switch on with trigger
5. Lock into position with trigger lock
6. Refer to Hammer Instruction Manual for more detail on operation and service



Always switch off machine before unplugging

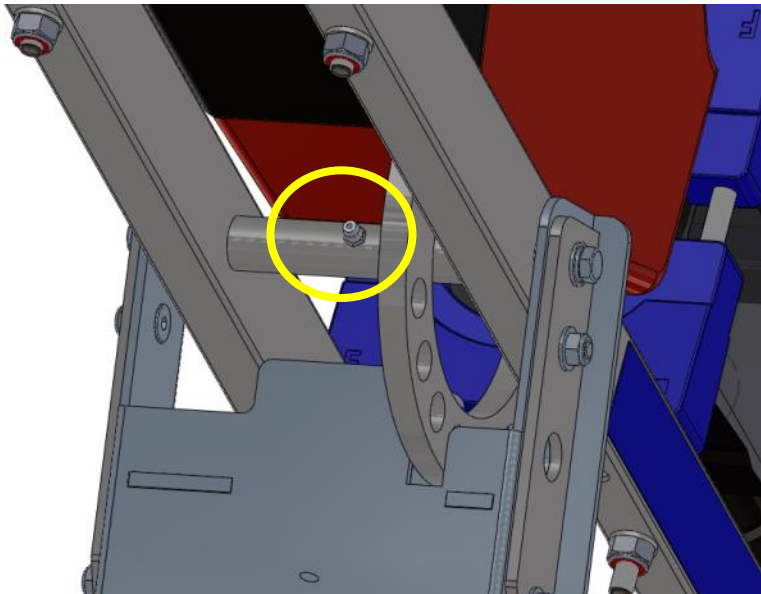
STEP 3 – Servicing the Hammer Trolley

Every Use:

- Inspect frame for damage
- Ensure bolts are secure

Every 6 Months:

- Adjust brake lever to eliminate free-play
 - See page 13 for details
- Lubricate brake lever cable
 - Drip oil from the top of the cable so it runs through the cable housing
 - Use light weight oil; grease or heavy oil will clog the cable housings
- Grease the pivot axle
 - Use a grease gun and apply grease until excess starts to leak out. See picture below for location of grease nipple:



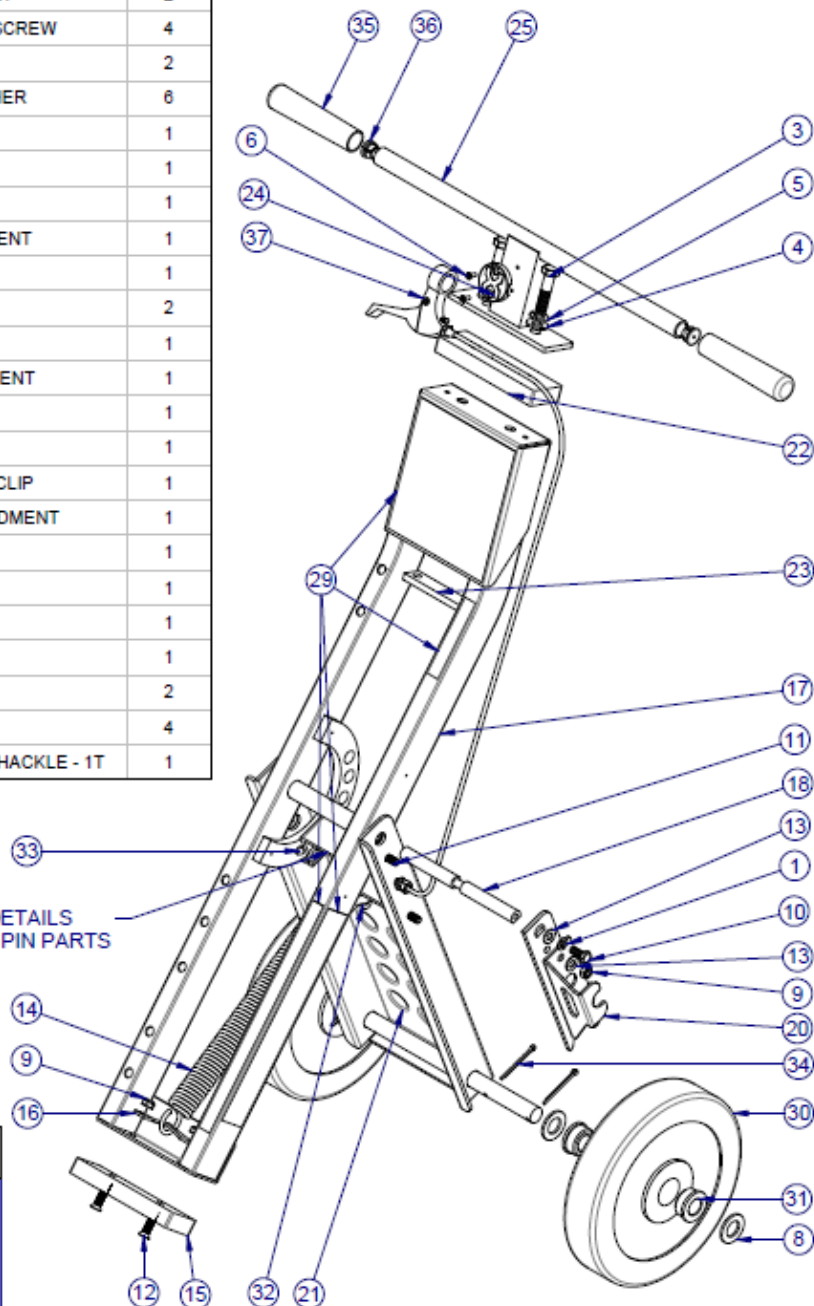
APPENDICES

- A. JACK HAMMER TROLLEY PARTS BREAK DOWN
- B. BLOCK SETS BREAKDOWN
- C. JACK HAMMER TROLLEY - HAZARD ASSESSMENT
- D. BLOCK SET PART SELECTION DETAILS
- E. SALES AND SPARES
- F. JACK HAMMER MANUAL (WHEN PURCHASED)

Appendix A – JHT PARTS BREAKDOWN

#	Document Number	Title	Quantity
1		M8 SPRING WASHER	3
2		M8 HEX NUT	2
3		M12x50 HEX HEAD BOLT	2
4		M12 WASHER	2
5		M12 SPRING WASHER	2
6		M4x12 COUNTERSUNK BOLT	2
7		GREASE NIPPLE	1
8		M20 NYLON WASHER	6
9		M8 HEX NUT NYLOC	6
10		M8x25 HEX HEAD BOLT	2
11		M8x20 CSK SOCKET SCREW	4
12		M8x35mm CSK POZI	2
13		M8 PLAIN FLAT WASHER	6
14	JHT-01-01	TENSION SPRING	1
15	JHT-02-01	RESTING BLOCK	1
16	JHT-02-02	SPRING BRACKET	1
17	JHT-03-00	MAIN FRAME WELDMENT	1
18	JHT-04-01	PIVOT AXLE	1
19	JHT-04-02	BOLT HOLDER	2
20	JHT-04-21	BOLT HOLDER BENT	1
21	JHT-05-00	BASE FRAME WELDMENT	1
22	JHT-06-01	HANDLE BUFFER	1
23	JHT-06-02	HANDLE NUTBAR	1
24	JHT-06-03	'X' CABLE RETAINER CLIP	1
25	JHT-07-00	HANDLE FRAME WELDMENT	1
26	JHT-08-01	LOWERING CABLE	1
27	JHT-08-02	LOWERING PIN	1
28	JHT-08-03	SMALL SPRING	1
29	JHT-99-11	STICKER SET - JHT	1
30	JHT-99-15	WHEEL	2
31	JHT-99-16	WHEEL BUSH	4
32	JHT-99-17	10mm DIA ANCHOR SHACKLE - 1T	1

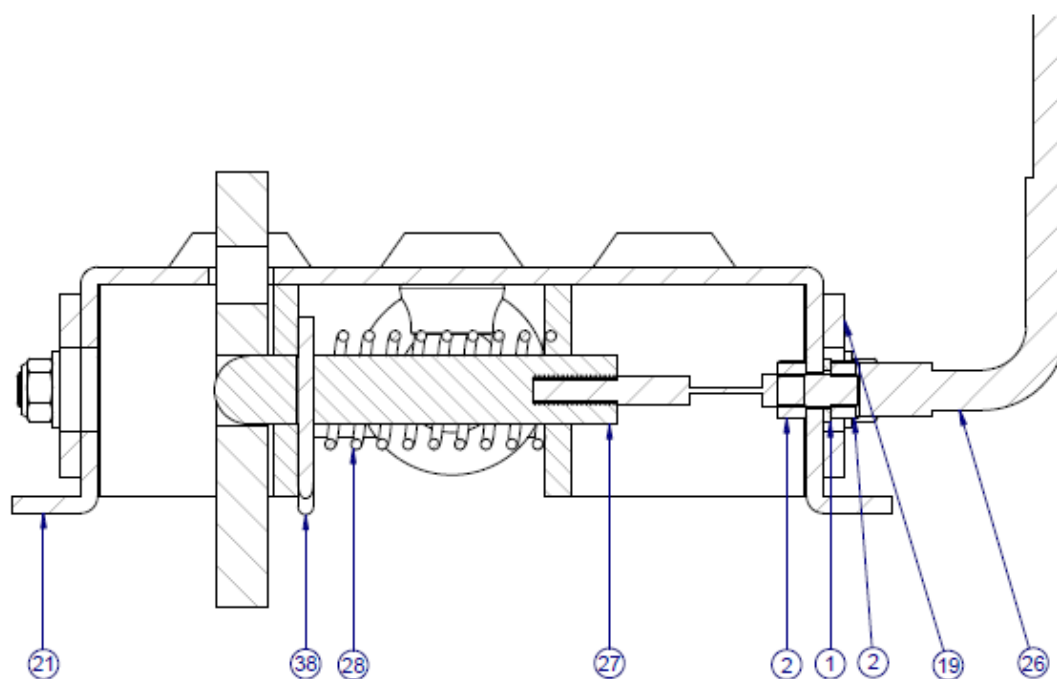
#	Document Number	Title	Quantity
33	JHT-99-21	M12 SPRING PLUNGER	1
34	JHT-99-42	COTTER SPLIT PIN	4
35	JHT-99-61	HANDLE GRIP	2
36	JHT-99-62	HANDLE END PLUG	2
37	JHT-99-63	BRAKE LEVER & CABLE	1
38	JHT-99-81	R-CLIP	1



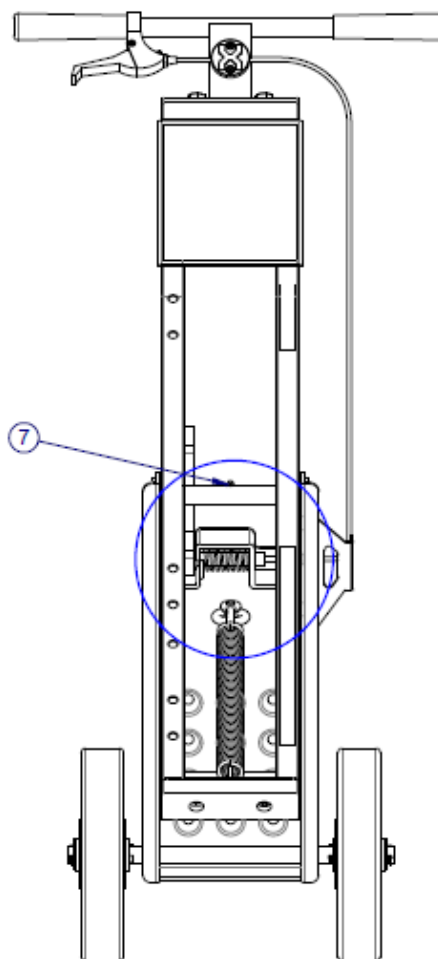
JACK HAMMER TROLLEY

MAKINEX

www.makinexusa.com
Makinex Support #:
US 407-446-1966 . 407-826-0000



REFER TO PREVIOUS PAGE
FOR PARTS LIST



JACK HAMMER TROLLEY

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www.makinexusa.com

Makinex Support #:

US 407-446-1966 . 407-826-0000

13762/0015

Appendix B – BLOCK SETS BREAK DOWN

PRINT MAY BE REDUCED - DO NOT SCALE.

HILTI CLAMP ASSEMBLY

ITEM	DESCRIPTION	PART NO.	QTY
1	HILTI F-BLOCK	JHT-09-11	2
2	HILTI HANDLE BLOCK TOP PLATE	JHT-09-06	1
3	HILTI HANDLE MOUNT PLATE	JHT-09-04	1
4	HILTI HANDLE BLOCK PLATE	JHT-09-05	1
5	HILTI HANDLE MOUNT LOWER	JHT-09-17	1
6	HILTI HANDLE MOUNT UPPER	JHT-09-16	1
8	M10x70 HEX BOLT		2
9	M10 x270 HEX BOLT		2
10	M10 HEX NUT (NYLOC)		4
11	M10 WASHER		4
12	M8 HEX NUT (NYLOC)		1
13	M8 WASHER		1
14	M8 x 70 HEX BOLT		1

makinox

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WARNING: Copyright in this drawing remains the property of MAKINEX and copying the whole or any part of this drawing without the written authority of the copyright owner.

GENERAL TOLERANCES
(Unless otherwise specified)
0-100mm: ± 0.25 mm
100mm-500mm: ± 0.5 mm
500mm-1000mm: ± 1.0 mm
Angular: ± 1 deg
AS 1100

DATE: 16/09/2015

PROJECT:

DWG NO.

JHT-16-00

NOTES:

1. 25
2. 1
3. 1
4. 1
5. 1
6. 1
7. 1
8. 1
9. 1
10. 1
11. 1
12. 1
13. 1
14. 1
15. 1
16. 1
17. 1
18. 1

SCALE: D.N.3

A3

Remove Bore & Seal

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Appendix C – HAZARD ASSESSEMENT

PRODUCT RISK / HAZARD ASSESSMENT TABLE					
Product Name: EASY HAMMER P5					
Manufacturer: WORK SMART EQUIPMENT					
Operator Competency: PLANT LICENCE NOT REQUIRED					
Assessment Carried Out By: RORY KENNARD					
Document Revision Number: 3					
Date: 25.10.2010					
	LIKELIHOOD	CONSEQUENCE	RISK LEVEL		
MECHANICAL HAZARDS					
PINCHING/CRUNSHING DUE TO - INADVERTANT PLACEMENT OF FINGERS IN PIVOT POINT	2 LIKELY	3 MINOR	3 MEDIUM		INSTRUCTIONS ON SAFE OPERATION OF LOWERING MECHANISM
STABBING/PUNCTURE DUE TO - FROM BLADE/MOIL WHILE OPERATING INSTALLATION/REMOVAL OF BLADE/MOIL	3 UNLIKELY 2 LIKELY	3 MINOR 3 MINOR	4 MEDIUM 3 MEDIUM		INSTRUCTIONS TO WEAR APPROPRIATE PROTECTIVE GLOVES INSTRUCTIONS TO WEAR APPROPRIATE PROTECTIVE GLOVES
CRUSHING DUE TO - DROPPING THE MACHINE WHILE LIFTING DROPPING HAMMER WHILE UNINSTALLING FROM TROLLEY	2 LIKELY 2 LIKELY	3 MINOR 3 MINOR	3 MEDIUM 3 MEDIUM		INSTRUCTIONS TO USE HOIST OR TWO PEOPLE TO LIFT MACHINE INSTRUCTIONS TO WEAR APPROPRIATE PROTECTIVE FOOTWEAR
ELECTRICAL HAZARDS					
SEVERING LEADS	2 LIKELY	1 FATALITY	1 HIGH		WIRES COATED, PROTECTED AND SECURED HANDLES INSULATED
HAZARDS GENERATED BY NOISE					
DEAFNESS (LONG TERM USE)	4 VERY UNLIKELY	2 MAJOR	4 MEDIUM		PLACE SIGNS TO RECOMMEND HEARING PROTECTION
HAZARDS GENERATED BY VIBRATION					
STRAIN FROM VIBRATION	3 UNLIKELY	3 MINOR	4 MEDIUM		3 POINTS OF VIBRATION ABSORPTION
HAZARDS GENERATED BY MATERIALS AND SUBSTANCES					
IRRITATIONS TO THE SKIN DUE TO MATERIALS USED INHALATION OF MINOR DEBBRE PARTICLES OPERATION OF BLADE	4 VERY UNLIKELY 1 VERY LIKELY 2 LIKELY	2 MINOR 2 MAJOR 3 MINOR	4 NEGLEBLE 1 HIGH 3 MEDIUM		MATERIALS ARE NOT HAZARDOUS INSTRUCTIONS TO WEAR APPROPRIATE PROTECTIVE MASK INSTRUCTIONS TO WEAR APPROPRIATE PROTECTIVE GOGGLES
HAZARDS GENERATED BY NEGLECTING ECONOMIC PRINCIPLES					
HAZARD COMBINATION					
BACK INJURY (BENDING ADJUSTING BLADE POSITION) LIFTING THE MACHINE (BACK INJURY)	3 UNLIKELY 2 LIKELY	2 MAJOR 3 MINOR	3 MEDIUM 3 MEDIUM		INSTRUCTIONS OF SAFE OPERATION OF LEVER INSTRUCTIONS TO USE HOIST OR TWO PEOPLE TO LIFT MACHINE
HAZARDS IN CONNECTION WITH PLACE OF OPERATION OF THE MACHINE					
NOTES					

IS DEFINED BY THE WORK-COVER AUTHORITY AS THUS:

NEGLEBLE = ABLE TO BE TREATED USING FIRST AID
MINOR = REVERSIBLE INJURIES REQUIRING SEVERAL DAYS OFF
MAJOR = NORMALLY IRREVERSIBLE INJURIES
FATALITY = INJURIES RESULT IN DEATH

THIS PRODUCT HAS BEEN DESIGNED AND MANUFACTURED AS A JACK HAMMER TROLLEY ONLY

THIS DOCUMENT HAS BEEN PREPARED ACCORDING TO GUIDELINES AND RECOMMENDATIONS FOUND IN:

1. 'HAZPAK' PRODUCED BY THE WORK-COVER AUTHORITY AND
2. THE AUSTRALIAN STANDARDS 4024.1, 4/5 - 1999 "SAFEGUARDING OF MACHINERY - PART 1: GENERAL PRINCIPLES"

THE TERMS 'VERY LIKELY', 'LIKELY', 'UNLIKELY', 'VERY UNLIKELY' REFER TO PROBABILITY OF AN EVENT HAPPENING, BUT ARE QUALITATIVE AND BASED ON BEST ESTIMATION DUE TO CONSULTATION AND EXPERIENCE.

RISK LEVEL IS DETERMINED USING THE 'RISK TABLE' AS SUGGESTED IN 'HAZPAK'.
INHERENTLY, AS THE CONSEQUENCE INCREASES IN SEVERITY, RISK INCREASES - EVEN WHEN LIKELIHOOD IS LOW

Appendix D- SERVICE AND SPARES

For sales and spare parts please refer to your local distributor below.



SERVICE & PART ORDERING

For service and ordering parts, please call

AUS: 1300 795 953 or +61 2 9460 8071

USA: 855-625-4639

EUROPE: +31 (0)6 24881203 or +31 (0)6 50841849

Or your nearest MAKINEX distributor

We have very knowledgeable, experienced staff to assist you with help and advice.

W makinex.com

E sales@makinex.com

Appendix E – JACK HAMMER MANUALS

Refer to your Hilti Jack Hammer manual for safety and operation instructions.

